

**INFORMATION DISCLOSURE STATEMENT**

Applicant : Gerald A. Hutchinson, et al.
App. No. : 10/705,748
Filed : November 10, 2003
For : INJECTION MOLD HAVING A WEAR
RESISTANT PORTION AND A HIGH
HEAT TRANSFER PORTION
Examiner : Unknown
Group Art Unit : 1732

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Sir:

Enclosed is form PTO-1449 listing 299 references. Copies of disclosed U.S. patents and/or publications are not included pursuant to PTO waiver of the requirement under 37 C.F.R. § 1.98(a)(2)(i) for applications filed after June 30, 2003. Copies of other references, if listed, are enclosed.

This Information Disclosure Statement is being filed before the receipt of a first Office Action on the merits, and presumably no fee is required in accordance with 37 C.F.R. § 1.97(b)(3). If a first Office Action on the merits was mailed before the mailing date of this Statement, the Commissioner is authorized to charge the fee set forth in 37 C.F.R. § 1.17(p) to Deposit Account No. 11-1410.

Respectfully submitted,

KNOBBE, MARTENS, OLSON & BEAR, LLP

Dated: 27 July 2004

By: Karoline A. Delaney

Karoline A. Delaney
Registration No. 44,058
Attorney of Record
Customer No. 20,995
(949) 760-0404

2FORM PTO-1449

U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICEATTY. DOCKET NO.
APTLTD.044AAPPLICATION NO.
10/705,748SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT
BY APPLICANT

(USE SEVERAL SHEETS IF NECESSARY)

APPLICANT
Hutchinson et al.FILING DATE
November 10, 2003GROUP
1732

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE (IF APPROPRIATE)
	1.	3,224,043	12/1965	Lameris, et al			
	2.	3,305,528	02/1967	Wynstra, et al			
	3.	3,317,471	05/1967	Johnson, et al			
	4.	3,395,118	07/1968	Reinking, et al			
	5.	3,482,284	12/1969	Rees			
	6.	3,632,267	01/1972	Kader			
	7.	3,719,735	03/1973	Valyi			
	8.	3,740,181	06/1973	Uhlig			
	9.	3,813,198	05/1974	Valyi			
	10.	3,819,314	06/1974	Marcus			
	11.	3,857,660	12/1974	Flynn et al.			
	12.	3,869,056	03/1975	Valyi			
	13.	3,878,282	04/1975	Bonis			
	14.	3,882,213	05/1975	Uhlig			
	15.	3,944,643	03/1976	Sato et al.			
	16.	3,947,176	03/1976	Rainville			
	17.	3,963,399	06/1976	Zavasnik			
	18.	3,966,378	06/1976	Valyi			
	19.	4,040,233	09/1977	Valyi			
	20.	4,061,705	12/1977	Marcus			
	21.	4,065,246	12/1977	Marcus			
	22.	4,079,851	03/1978	Valyi			
	23.	4,092,391	05/1978	Valyi			
	24.	4,116,606	09/1978	Valyi			
	25.	4,145,392	03/1979	Valyi			
	26.	4,149,645	04/1979	Valyi			
	27.	4,151,247	04/1979	Hafele			
	28.	4,151,248	04/1979	Valyi			

EXAMINER

DATE CONSIDERED

*EXAMINER: INITIAL IF CITATION CONSIDERED, WHETHER OR NOT CITATION IS IN CONFORMANCE WITH MPEP 609; DRAW LINE THROUGH CITATION IF NOT IN CONFORMANCE AND NOT CONSIDERED, INCLUDE COPY OF THIS FORM WITH NEXT COMMUNICATION TO APPLICANT.

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U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE (IF APPROPRIATE)
	29.	4,213,751	07/1980	Fernandez			
	30.	4,323,341	04/1982	Valyi			
	31.	4,357,296	11/1982	Hafele			
	32.	4,375,947	03/1983	Marcus			
	33.	4,376,090	03/1983	Marcus			
	34.	4,378,963	04/1983	Schouenberg			
	35.	4,403,090	09/1983	Smith			
	36.	4,438,254	03/1984	Doorakian, et al			
	37.	4,480,082	10/1984	McLean, et al			
	38.	4,515,836	05/1985	Cobbs, et al.			
	39.	4,538,542	09/1985	Kennon, et al.			
	40.	4,540,543	09/1985	Thomas, et al			
	41.	4,560,741	12/1985	Davis, et al.			
	42.	4,573,596	03/1986	Slat			
	43.	4,564,541	01/1986	Taira et al.			
	44.	4,569,869	02/1986	Kushida et al.			
	45.	4,578,295	03/1986	Jabarin			
	46.	4,587,073	05/1984	Jakobsen			
	47.	4,590,021	05/1986	Ota et al.			
	48.	4,604,044	08/1986	Hafele			
	49.	4,604,258	08/1986	Valyi			
	50.	4,615,925	10/1986	Nilsson			
	51.	4,646,925	03/1987	Nohara			
	52.	4,647,648	03/1987	Silvis, et al			
	53.	4,699,809	10/1987	Maruhashi et al			
	54.	4,715,504	12/1987	Chang, et al.			
	55.	4,741,936	05/1988	Nohara, et al.			
	56.	4,755,404	07/1988	Collette			

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	57.	4,818,575	04/1989	Hirata et al.			
	58.	4,830,811	5/1989	Aoki			
	59.	4,847,129	07/1989	Collette et al.			
	60.	4,867,664	09/1989	Fukuhara			
	61.	4,871,410	10/1989	Bonnebat et al.			
	62.	4,937,130	06/1990	Clagett et al.			
	63.	4,940,616	07/1990	Yatsu, et al.			
	64.	4,956,143	09/1990	McFarlane			
	65.	4,980,211	12/1990	Kushida			
	66.	5,006,381	04/1991	Nugent, Jr. et al.			
	67.	5,077,111	12/1991	Collette			
	68.	5,085,821	02/1992	Nohara			
	69.	5,089,588	02/1992	White et al.			
	70.	5,094,793	03/1992	Schrenk, et al.			
	71.	5,115,075	05/1992	Brennan, et al.			
	72.	5,134,218	07/1992	Brennan, et al.			
	73.	5,143,998	09/1992	Brennan, et al.			
	74.	5,149,768	09/1992	White et al.			
	75.	5,188,787	02/1993	King, et al.			
	76.	5,202,074	04/1993	Schrenk, et al.			
	77.	5,246,751	09/1993	White et al.			
	78.	5,275,853	01/1994	Silvis, et al			
	79.	RE. 34,537	02/1994	Dyrup			
	80.	5,300,326	04/1994	Zezinka et al.			
	81.	5,300,541	04/1994	Nugent, Jr., et al			
	82.	5,302,417	04/1994	Yamauchi et al.			
	83.	5,354,532	10/1994	Nakai, et al.			
	84.	5,443,378	08/1995	Jaroschek, et al.			

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	85.	5,443,766	08/1995	Slat, et al.			
	86.	5,464,106	11/1995	Slat, et al.			
	87.	5,472,753	12/1995	Farha			
	88.	5,489,455	02/1996	Nugent, Jr., et al.			
	89.	5,491,204	02/1996	Nugent, Jr., et al			
	90.	5,508,076	04/1996	Bright			
	91.	5,509,965	04/1996	Harry, et al.			
	92.	5,540,878	07/1996	Schrenk, et al.			
	93.	5,551,858	09/1996	Yoshizawa, et al.			
	94.	5,571,470	11/1996	Plester			
	95.	5,582,788	12/1996	Collette, et al.			
	96.	5,599,494	02/1997	Marcus			
	97.	5,628,950	05/1997	Schrenk, et al.			
	98.	5,628,957	05/1997	Collette, et al.			
	99.	5,639,848	06/1997	Nugent, Jr. et al.			
	100.	5,645,183	07/1997	Slat, et al.			
	101.	5,651,933	07/1997	Slat, et al.			
	102.	5,652,034	07/1997	Seiner			
	103.	5,676,267	10/1997	Slat et al.			
	104.	5,688,570	11/1997	Ruttinger			
	105.	5,688,572	11/1997	Slat, et al.			
	106.	5,728,439	03/1998	Carlbom			
	107.	5,731,094	03/1998	Brennan, et al.			
	108.	5,759,653	06/1998	Collette et al.			
	109.	5,759,654	06/1998	Cahill			
	110.	5,759,656	06/1998	Collette et al.			
	111.	5,772,056	06/1998	Slat			
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	113.	5,804,305	09/1998	Slat et al.			
	114.	5,834,078	11/1998	Cavitt et al.			
	115.	5,837,339	11/1998	Wood et al.			
	116.	5,894,023	04/1999	Schramm et al.			
	117.	5,906,285	05/1999	Slat			
	118.	5,906,787	05/1999	Plester			
	119.	5,914,138	06/1999	Swenson			
	120.	5,927,525	07/1999	Darr, et al.			
	121.	5,968,620	10/1999	Harvey et al.			
	122.	5,972,445	10/1999	Kimura et al.			
	123.	5,989,661	11/1999	Krishnakumar et al.			
	124.	6,051,294	04/2000	White et al.			
	125.	6,068,900	05/2000	Kohn et al.			
	126.	6,090,460	07/2000	Collette et al.			
	127.	6,123,211	09/2000	Rashid et al.			
	128.	6,136,354	10/2000	Wood et al.			
	129.	6,168,740 B1	01/2001	Koch et al.			
	130.	6,180,715 B1	01/2001	Schmidt			
	131.	6,312,641 B1	11/2001	Hutchinson			
	132.	6,319,574 B1	11/2001	Slat			
	133.	6,352,426 B1	03/2002	Hutchinson et al.			
	134.	6,365,247 B1	04/2002	Cahill et al.			
	135.	6,372,318 B1	04/2002	Collette et al.			
	136.	6,391,408 B1	05/2002	Hutchinson			
	137.	6,413,075	07/2002	Sykes et al.			
	138.	6,428,737 B1	08/2002	Collette et al.			
	139.	6,461,697 B1	10/2002	Slat et al.			
	140.	6,485,804 B1	11/2002	Nakamachi et al.			

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	141.	6,524,672 B1	02/2003	Slat et al.			
	142.	6,676,883 B2	01/2004	Hutchinson et al.			
	143.	2001/0030163 A1	10/2001	Rashid et al.			
	144.	2002/0001686 A1	01/2002	Kashiba et al.			
	145.	2002/0028870 A1	03/2002	Lan et al.			
	146.	2002/0048682 A1	04/2002	Subramanian et al.			
	147.	2002/0061371 A1	05/2002	Schmidt et al.			
	148.	2002/0090473 A1	07/2002	Lee et al.			
	149.	2002/0155236 A1	10/2002	Cahill et al.			
	150.	2003/0012904 A1	01/2003	Hutchinson et al.			
	151.	2003/0001315 A1	01/2003	Hutchinson et al.			
	152.	2003/0031814 A1	02/2003	Hutchinson et al.			
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FOREIGN PATENT DOCUMENTS								
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
	154.	CA 1 174 020	9/1984	Canada				
	155.	EP 0 019 438 A1	11/1980	Europe				
	156.	EP 0 073 151 A2	02/1983	Europe				
	157.	EP 0 092 979 B1	11/1983	Europe				
	158.	EP 0 095 909 B1	05/1983	Europe				
	159.	EP 0 096 581 B1	12/1983	Europe				
	160.	EP 0 099 727 A2	07/1983	Europe				
	161.	EP 0 100 375 A2	09/1982	Europe				
	162.	EP 0 105 826 B1	07/1983	Europe				
	163.	EP 0 118 226 B2	09/1984	Europe				
	164.	EP 0 125 107A1	11/1984	Europe				

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							YES	NO
	165.	EP 0 126 575 A2	05/1984	Europe				
	166.	EP 0 156 085 B1	11/1984	Europe				
	167.	EP 0 171 161 B1	06/1985	Europe				
	168.	EP 0 174 265 A2	03/1985	Europe				
	169.	EP 0 153 120 B1	08/1985	Europe				
	170.	EP 0 153 894 B1	09/1985	Europe				
	171.	EP 0 160 984 B1	11/1985	Europe				
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	173.	EP 0 180 191 B1	05/1986	Europe				
	174.	EP 0 191 701 A2	08/1986	Europe				
	175.	EP 0 199 633 B1	10/1986	Europe				
	176.	EP 0 203 630 A2	12/1986	Europe				
	177.	EP 0 212 339 B1	04/1983	Europe				
	178.	EP 0 215 630 B1	03/1987	Europe				
	179.	EP 0 218 245 B1	04/1987	Europe				
	180.	EP 0 225 049 A2	06/1987	Europe				
	181.	EP 0 266 900 A2	05/1988	Europe				
	182.	EP 0 278 403 B1	08/1988	Europe				
	183.	EP 0 280 736 A1	09/1988	Europe				
	184.	EP 0 287 839 A2	10/1988	Europe				
	185.	EP 0 302 117 A1	02/1989	Europe				
	186.	EP 0 306 675 B1	03/1989	Europe				
	187.	EP 0 325 030 A2	11/1988	Europe				
	188.	EP 0 341 044 B1	03/1989	Europe				
	189.	EP 0 350 745 A2	01/1990	Europe				
	190.	EP 0 351 118A2	01/1990	Europe				
	191.	EP 0 368 278 A2	05/1990	Europe				
	192.	EP 0 376 469 B1	07/1990	Europe				

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							YES	NO
	193.	EP 0 387 614 B1	06/1994	Europe				
	194.	EP 0 395 237 A1	04/1990	Europe				
	195.	EP 0 462 455 A1	06/1991	Europe				
	196.	EP 0 518 703 A2	12/1992	Europe				
	197.	EP 0 518 703 A3	12/1992	Europe				
	198.	EP 0 524 572 B1	07/1992	Europe				
	199.	EP 0 544 545 A1	11/1992	Europe				
	200.	EP 0 571 116 A1	10/1993	Europe				
	201.	EP 0 581 970 A1	02/1994	Europe				
	202.	EP 0 583 953 A1	12/1993	Europe				
	203.	EP 0 653 982 B1	09/1997	Europe				
	204.	EP 0 671 251A1	09/1995	Europe				
	205.	EP 0 678 554 A1	10/1995	Europe				
	206.	EP 0 689 933 A2	01/1996	Europe				
	207.	EP 0 744 263 A2	11/1996	Europe				
	208.	EP 0 767 049 A2	10/1996	Europe				
	209.	EP 0 774 491 A2	11/1996	Europe				
	210.	EP 0 756 931 A3	02/1997	Europe				
	211.	EP 0 756 931 A2	02/1997	Europe				
	212.	EP 0 794 007 A1	09/1997	Europe				
	213.	EP 0 822 213 A1	02/1998	Europe				
	214.	EP 0 837 763 B1	12/2001	Europe				
	215.	EP 0 894 604 A1	02/1999	Europe				
	216.	EP 0 964 031 A2	12/1999	Europe				
	217.	FR 2538297	06/1984	France				
	218.	DE 21 08 774 A	09/1971	Germany				
	219.	DE 26 49 640	05/1978	Germany				
	220.	DE 30 44 930 A1	10/1981	Germany				

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							YES	NO
	221.	DE 3407 060 C2	04/1986	Germany				
	222.	DE 3518 441 C2	03/1987	Germany				
	223.	DE 3518 875 C2	09/1989	Germany				
	224.	DE 3121 420 C2	03/1990	Germany				
	225.	DE 3121 421 C2	08/1990	Germany				
	226.	DE 298 620 A5	03/1992	Germany				
	227.	DE 196 40 662 C1	03/1998	Germany				
	228.	GB 1482956	08/1977	Great Britain				
	229.	GB 2011309A	07/1979	Great Britain				
	230.	JP 55-37335	03/1980	Japan				
	231.	JP 57093126	06/1982	Japan				
	232.	JP 57-93126	10/1982	Japan				
	233.	JP 58092536	01/1983	Japan				
	234.	JP 58173634A	10/1983	Japan				
	235.	JP 58215309A	12/1983	Japan				
	236.	JP 61002519	01/1986	Japan				
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	238.	JP 04074620A	03/1992	Japan				
	239.	JP 04197634	07/1992	Japan				
	240.	JP 08281892	10/1996	Japan				
	241.	JP 106219	4/2001	Japan				
	242.	JP 11090975A	4/1999	Japan				
	243.	WO 87/05276	09/1987	WIPO				
	244.	WO 89/08556	09/1989	WIPO				
	245.	WO 90/07553	07/1990	WIPO				
	246.	WO 92/01558	02/1992	WIPO				
	247.	WO 93/01988	07/1991	WIPO				
	248.	WO 93/07068	04/1993	WIPO				

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	249.	WO 93/25835	12/1993	WIPO				
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EXAMINER	DATE CONSIDERED
<p>*EXAMINER: INITIAL IF CITATION CONSIDERED, WHETHER OR NOT CITATION IS IN CONFORMANCE WITH MPEP 609; DRAW LINE THROUGH CITATION IF NOT IN CONFORMANCE AND NOT CONSIDERED, INCLUDE COPY OF THIS FORM WITH NEXT COMMUNICATION TO APPLICANT.</p>	

2FORM PTO-1449	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO. APTLTD.044A	APPLICATION NO. 10/705,748
SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT BY APPLICANT (USE SEVERAL SHEETS IF NECESSARY)		APPLICANT Hutchinson et al.	
		FILING DATE November 10, 2003	GROUP 1732

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